

# ABSTRACT OF DISCLOSURE

A refrigerant refill amount calculating apparatus is provided with concentration measuring units for measuring component ratios  $X_1: Y_1: Z_1$  of fluorocarbon S contained in a refrigerating machine, and a calculation processing unit. The calculating unit calculates additional filling amounts of respective refrigerant components which are required to fill fluorocarbon having a defined amount "A" in accordance with defined component ratios  $X: Y: Z$  within the refrigerating machine based upon an additional filling amount  $X_a$  of a refrigerant component which has been additionally filled into the refrigerating machine, and a change amount of component ratios  $X_1: Y_1: Z_1, X_2: Y_2: Z_2$  which have been measured before and after the refrigerant component was filled. Refill amounts of refrigerant components can be easily calculated in a correct manner.

[Selected drawing]

Figure 1